PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference Case 1088	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2004/043541	International filing date (day/month/year) 23 December 2004 (23.12.2004)	Priority date (day/month/year) 23 December 2003 (23.12.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant TANOX, INC.				

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	3. This report contains indications relating to the following items:				
	Box No. I Basis of the report				
	Box No. II Priority				
	Box No. III	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
1	Box No. VIII	Certain observations on the international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
		•			
Date of issuance of this report 26 June 2006 (26.06.2006)					
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		ombettes	Authorized officer Nora Lindner		
Facsimile No. +41 22 338 82 70 e-mail: pt02@wipo.int			e-mail: pt02@wipo.int		
Earn I	PCT/IB/373 (January 2004)				

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SE	ARCHING AUTI	IORITY		
To: CHERYL A. LILJESTRAND		œ. •	WIPO PCT	
TANOX, INC. 10301 STELLA LINK ROAD HOUSTON, TX 77025			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			11122411111	(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	02 AUG 2009
Applicant's or agent	s file reference		FOR FURTHER	ACTION See paragraph 2 below
CASE 1088 International application	on No.	International filing date	(day/month/year) Priority date (day/month/year)	
PCT/US04/43541		23 December 2004 (23.1	2 2004)	23 December 2003 (23.12.2003)
	lassification (IPC)	or both national classificat		25 December 2003 (25.12.2003)
IPC(7): C07K 16/00:	A61K 39/395: G0	1N 33/53 and US Cl.: 424	/130.1. 133.1. 135.	1, 156.1; 530350, 387.3, 388.85; 435/7
Applicant				
TANOX, INC.				·
1. This opinion con	ains indications re	lating to the following item	is: ·	
Box No.	Basis of the	e opinion	•	
Box No.	I Priority			
Box No.	II Non-establ	ishment of opinion with re	gard to novelty, inve	entive step and industrial applicability
	Box No. IV Lack of unity of invention			
Box No.		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
Box No.	Box No. VI Certain documents cited			
Box No.	Box No. VII Certain defects in the international application			
Box No.	VIII Certain ob	servations on the internation	nal application	
2. FURTHER AC	CTION		•	
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPBA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPBA and the chosen IPBA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing ad		JS .	Authorized office	ana Italia
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Christopher Yae	7	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 7	03-308-0196	

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/43541

Box No. I' Basis of this opinion					
1. '	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 				
l		This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
2.	With claim	regard to any nucleotide and/or a mino a cid s equence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:			
	a.	type of material			
		a sequence listing			
		table(s) related to the sequence listing			
	b.	format of material			
		in written format			
		in computer readable form			
	c.	time of filing/furnishing			
		contained in international application as filed.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority for the purposes of search.			
3.	\boxtimes	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4.	Addi	tional comments:			

Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/43541

Box No. V Reasoned statement under Rule 4 applicability; citations and explan	3 bis.1(a)(i) with regard to no ations supporting such states	velty, inventive step or indus nent	strial 	
1. Statement				
	Claims 2, 4, 12-25, 28-31		YES	
Novelty (N)	Claims 2, 4, 12-23, 28-31 Claims 1, 3, 5-11, 26-27,		NO	
	21-13-061-00-01			
Inventive step (IS)	Claims 2, 4, 12-25, 28-29		YES	
• • •	Claims 1, 3, 5-11, 26-27.		NO	
			YES	
Industrial applicability (IA)			NO	
	Claims NONE			
2. Citations and explanations: Claims 1, 3, 5-11, 26-27, 32-33 lack novelty under PCT Article 33(2) as being anticipated by Mak et al (US Patent 6,468,528, issn 10722/02). The claims are summarized as a method of treating Hodgkin's lymphoma with an anti-IL-13 antibody that binds glycosylated as well as nonglycosylated IL-13 and neutralizes human IL-13 at a ratio of 1:2 wherein the antibody is a single-chain antibody, administered systemically, and a carrier and a method of diagnosting. Mak et al teach an anti-IL-13 antibody that binds the polyperpited IL-13and neutralizes the activity of IL-13 (see column 4 and the antibody can be single-chain, or a whole antibody (which would bind at 1:2 (one antibody and 2 IL-2 for the antibody is bivalent)) and the antibody treats Hodgkin's lymphoma (see column 5-6) and the antibody is in a carrier and can be administered intravenously (see column 7). Since the antibody binds the peptide it would bind glycosylated as well as non-glycosylated IL-13. Claims 1, 3, 5-11, 26-27, 30-33 lack an inventive step under PCT Article 33(3) as being obvious over Mak et al (above) in view of Thorpe et al (US Patent 6,156,321, issues 12/00). Claims 30-31 recite a conjugate to the antibody. Mak et al bas been described supra. Mak et al does not teach conjugates of the antibody for treatment. This deficiency made up for tin the teachings of Thorpe et al. Thorpe et al teach conjugates of toxins and cytotoxic moieties to antibodies for treatment of cancers. It would have been obvious to conjugate the antibody of Mak et al with a toxin as taught by Thorpe for treatment of cancing of the antibody to a toxin as taught by Thorpe et al to kill the tumor cells.				

Form PCT/ISA/237 (Box No. V) (January 2004)